

AMENDMENTS TO THE CLAIMS:

Replace the claims with the following rewritten listing:

1. (Currently Amended) User interface ~~means~~ comprising:
 - ~~motion detection means (MDM);~~
 - ~~output means (OM);~~ and
 - ~~adaptation means (AM)~~ adapted for ~~receiving~~ receipt of motion detection signals (~~MDM~~) obtained by said motion detection means (~~MDM~~), ~~establishing~~ establishing an interpretation frame on the basis of said motion detection signals (~~MDM~~) and ~~establishing and outputting~~ establishing and outputting communication signals (~~CS~~) to said output means (~~OM~~) on the basis of said motion detection signals (~~MDM~~) and said interpretation frame.
2. (Currently Amended) User interface ~~means~~ according to claim 1, wherein said user interface further comprises signal processing means or communicates with motion detection means (~~MDM~~) ~~determining the obtained signal differences by comparison with the signals obtained when establishing said interpretation frame.~~
3. (Currently Amended) User interface ~~means~~ according to claim 1 ~~or 2~~, wherein said user interface ~~means are~~ is distributed.
4. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1-3, wherein said motion detection means ~~MDM~~ comprises a set of motion detection sensors (~~SEN1, SEN2...SENn~~).
5. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1-4, wherein said set of motion detection sensors (~~SEN1, SEN2...SENn~~) ~~are~~ is exchangeable.
6. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims ~~1-5~~, wherein said set of motion detection sensors (~~SEN1, SEN2...SENn~~) forms a motion detection means (~~MDM~~) ~~combined by~~ comprising at least two motion detection sensors (~~SEN1, SEN2...SENn~~) and

wherein ~~an~~the individual motion detection sensor may be exchanged by another motion detection sensor.

7. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 41-6,~~ wherein said set of motion detection sensors (~~SEN1, SEN2...SENn~~) comprises at least two different types of motion detection sensors.

8. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 1-7,~~ wherein said motion detection means (~~MDM~~) may be optimized by a user to ~~an~~the intended purpose by exchanging or adding of motion detection sensors (~~SEN1, SEN2...SENn~~), ~~preferably by means of said motion detector sensors including~~ at least two different types of motion detection sensors (~~SEN1, SEN2...SENn~~).

9. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 71-8,~~ wherein said at least two different types of motion detection sensors (~~SEN1, SEN2...SENn~~) are mutually distinguishable.

10. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 41-9,~~ wherein said motion detection sensors (~~SEN1, SEN2...SENn~~) ~~physically~~ comprise at least parts of said adaptation means (~~AM~~).

11. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 1-10,~~ wherein said user interface ~~means~~ further comprises configuration means (~~CM~~) for configuring said adaptation means (~~AM~~).

12. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 1-11,~~ wherein said configuration means (~~CM~~) outputs information to ~~a~~the user through said output means (~~OM~~).

13. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 11-12~~, wherein said configuration means ~~(CM)~~ represents different parameters of the adaptation means ~~(AM)~~ by a human figure presented to ~~a~~the user by ~~means of~~ said output means ~~(OM)~~.

14. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 11-13~~, wherein said configuration means ~~(CM)~~ comprises a configuration wizard ~~for~~ automatically or semi-automatically leading ~~a~~the user through a configuration sequence.

15. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 1-14~~, wherein said configuration sequence comprises: ~~the steps of~~

- ◆choosing ~~a~~the position of ~~a~~the subject;_i
- ◆choosing ~~a~~the area of ~~a~~the body used in ~~a~~the exercise;_i
- ◆indicating ~~the~~ desired movement for the exercise;_i
- ◆playing back the movements of the exercise for the subject;_i
- ◆indicating ~~the~~ desired output for the exercise;_i
- ◆choosing which part of the body should be fixed or monitored for erroneous movements;_i and
- ◆choosing ~~a~~the strictness of error control.

16. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 1-15~~, wherein said user interface ~~means~~ further comprises remote control means.

17. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 41-16~~, wherein said motion detection sensors ~~(SEN1, SEN2...SENn)~~ are driven by rechargeable batteries.

18. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 41-17~~, wherein said motion detection means ~~(MDM)~~ comprises a sensor tray ~~(ST)~~ for holding said motion detection sensors ~~(SEN1, SEN2...SENn)~~.

19. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1-18, wherein said sensor tray (~~ST~~) comprises means for recharging said motion detection sensors (~~SEN1, SEN2...SENn~~).

20. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1-19, wherein said motion detection signals (~~MDS~~) and/or said communication signals are transmitted by ~~means of~~ wireless communication.

21. (Canceled)) User interface ~~means~~ according to ~~any of the~~ claims 1-20, wherein said communication signals (~~CS~~) are transmitted by ~~means of~~ establishing wireless communication.

22. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 201-21, wherein said wireless communication exploits ~~the~~ Bluetooth technology.

23. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 201-22, wherein said wireless communication exploits wireless network technology.

24. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 201-23, wherein said wireless communication exploits wireless broadband technology.

25. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 201-24, wherein said wireless communication exploits UMTS technology.

26. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1-25, wherein said user interface means further comprises a sensor stand (~~SS~~).

27. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1-26, wherein said sensor stand (~~SS~~) has a shape recognizable as the shape of a human body.

28. (Currently Amended) User interface ~~means~~ according to ~~any of the~~ claims 1-27, wherein said output means (~~OM~~) comprises an output interface.

29. (Currently Amended) User interface ~~means~~ according to ~~any of the claims 1-28,~~
wherein said output means ~~(OM)~~ comprises a computer.

30. (Currently Amended) Use of user interface ~~means~~ according to ~~any of the claims 1~~
~~to 29~~ for rehabilitation.

31. (Currently Amended) Use of user interface ~~means~~ according to ~~any of the claims 1~~
~~to 29~~ for controlling electronical appliances.

32. (Currently Amended) Use of user interface ~~means~~ according to ~~any of the claims 1~~
~~to 29~~ for controlling machines.

33. (Currently Amended) Use of user interface ~~means~~ according to ~~any of the claims 1~~
~~to 29~~ for communication.

34. (Original) Motion detector comprising a set of partial detectors of different types
with respect to detection characteristics.

35. (Original) Motion detector according to claim 34, wherein the motion detector is
adaptive.

36. (Currently Amended) Motion detector for use in an interface according to ~~any of~~
~~the claims 1 to 35.~~